R E M A R K S

Reconsideration of this application, as amended, is respectfully requested.

The Examiner is thanked for conducting a telephone interview on January 11, 2006.

THE CLAIMS

Independent claims 1, 6 and 12 have been amended to clarify the feature of the present invention whereby the contents data is copyrighted electronic contents data, as supported by the disclosure in the specification at, for example, page 2, lines 15-19.

In addition, independent claims 1, 6 and 12 have been amended to explicitly recite that the server receives from the user terminal contents specifying data specifying the copyrighted electronic contents data to be distributed, and that the first key is generated at the server from contents information relating to the copyrighted electronic contents data to be distributed.

No new matter has been added, and it is respectfully requested that the amendments to claims 1, 6 and 8 be approved and entered.

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THE PRIOR ART REJECTION

Claims 1, 2 and 4-12 were rejected under 35 USC 102 as being anticipated by USP 6,539,364 ("Moribatake et al"). This rejection, however, is respectfully traversed.

First, it is respectfully submitted that Moribatake et al relates to issuing, receiving and spending electronic cash, and does not at all disclose, teach or suggest encrypting and decrypting copyrighted electronic contents data as recited in amended independent claims 1, 6 and 8. In addition, it is respectfully submitted that Moribatake et al does not disclose, teach or even remotely suggest first and second keys having features as recited in independent claims 1, 6 and 8. And still further, it is respectfully submitted that the disparate portions of Moribatake et al that were cited by the Examiner cannot logically be integrated to disclose a functional encryption and decryption technique as recited in independent claims 1, 6 and 8.

According to the present invention as recited in amended independent claims 1, 6 and 8, copyrighted electronic contents data is encrypted and decrypted to be distributed from a server to a user terminal through a network. According to the present invention as recited in the amended independent claims, contents specifying data, which specifies the copyrighted electronic contents data to be distributed, is received from the user

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terminal. A first key is generated at the server <u>from contents</u>
<u>information relating to the copyrighted electronic contents data</u>
<u>to be distributed</u>. A second key is generated at the server from:
a variable parameter received from the user terminal, a H/W key
ID retrieved from a user information database by using a user ID
received from the user terminal, and the first key, and then the
generated second key is sent to the user terminal. At the user
terminal, the first key is decrypted from the variable parameter,
the H/W key ID, and the second key. At the server, moreover, the
(copyrighted electronic) contents data to be distributed is
encrypted by using the first key, and the encrypted contents data
is sent to the user terminal. Finally, the encrypted contents
data at the user terminal by using the decrypted first key.

That is, according to the present invention as recited in
amended independent claims 1, 6 and 8, the contents data to be
distributed which is encrypted and decrypted using the first key
is <u>copyrighted electronic contents data</u>, and the first key is
generated from contents information <u>relating to the copyrighted</u>
<u>electronic contents data to be distributed</u>.

According to dependent claims 10-12, moreover, the contents
information of the contents data comprises a size of the contents
data and a preceding update date of the contents data.

It is respectfully pointed out that Moribatake et al, by
contrast, relates to obtaining electronic cash and using the

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obtained electronic cash to purchase items, using signatures
transmitted between a user, a trustee equipment, a bank, an
electronic cash issuer, and a store. According to Moribatake et
al, the electronic cash is distributed by, for example, issuing a
"signature" from an issuer to a user in which the signature is
prepared based on a public user key, a cash amount and a secret
key of the issuer of the electronic cash (i.e. signature
SKI(PKU,x) of Moribatake et al).

It is respectfully submitted that the electronic cash of
Moribatake et al clearly does not at all relate to copyrighted
electronic contents data that is encrypted and decrypted to be
distributed over a network.

It is respectfully submitted, moreover, that Moribatake et
al clearly does not disclose, teach or suggest a first key which
is used to encrypt and decrypt contents data and which is
generated from contents information relating to the copyrighted
electronic contents data to be distributed, or a second key which
is generated from: a variable parameter received from the user
terminal, a H/W key ID retrieved from a user information database
by using a user ID received from the user terminal, and the first
key, wherein the user terminal uses the variable parameter, the
H/W key ID, and the second key to decrypt the first key.

The Examiner has cited disclosure from the first through
fourth embodiments of Moribatake et al as relating to the claimed

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present invention. These embodiments disclose many keys that are
used to encrypt and decrypt data. In particular, the trustee
equipment 500, which in some embodiments registers and issues a
license to the user equipment 300, generates secret key SKR and
public key PKR. The user equipment 300 of Moribatake et al
generates a secret key SKU and a public key PKU, and in at least
the third and fourth embodiments, also generates a common key K.
The issuer equipment 100 of Moribatake et al generates secret key
SKI and public key PKI. And in at least the second embodiment of
Moribatake et al, the bank equipment 200 stores pre-generated
secret key SKBx for a cash amount x, and public bank key PKBx for
cash amount x that is sent to issuer and user equipment 100
and 300.

The keys of Moribatake et al mentioned above are used to
perform various encryption, decryption and authentication
operations. However, <u>Moribatake et al does not disclose, teach
or suggest how any of the keys SKR, PKR, SKU, PKU, K, SKI, PKI,
SKBx and PKBx are generated</u>.

Since Moribatake et al does not disclose <u>how</u> the keys are
generated or upon what data the generation of the keys is based,
(except, possibly, for the disclosure that keys SKBx and PKBx are
"for electronic cash x"), it is respectfully submitted that
Moribatake et al cannot even remotely be considered to disclose a
first key that is generated from contents information relating to

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the copyrighted electronic contents data to be distributed, or a
second key which is generated from: a variable parameter received
from the user terminal, a H/W key ID retrieved from a user
information database by using a user ID received from the user
terminal, and the first key.

Although it is not clear what features of Moribatake et al
the Examiner considers to correspond to the keys of the claimed
present invention, the Examiner may believe that the "signatures"
disclosed by Moribatake et al correspond to the first and/or
second key of the claimed present invention.

It is respectfully pointed out, however, that according to
the claimed present invention the first key is used to encrypt
data at the server, and the second key is used (along with the
variable parameter and H/W key ID) to decrypt the first key.

And it is respectfully pointed out that the signatures
disclosed by Moribatake et al are neither used to encrypt or
decrypt information. By contrast, the signatures of Moribatake
et al are formed by encrypting key(s) and other information, and
the signatures themselves may be encrypted by still further keys.
However, the signatures of Moribatake et al are not themselves
used to encrypt or decrypt information. That is, the signatures
of Moribatake et al are not keys. Thus, it is respectfully
submitted that the signatures of Moribatake et al also do not

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correspond to the first and second keys of the claimed present invention.

In more detail, according to the first embodiment of Moribatake et al, the user equipment 300 is registered by sending a public user key PKU (which is generated at the user equipment with key generating device 330) and a user name IdU to the trustee equipment 500. The trustee equipment 500 stores PKU and IdU and generates a signature (or "license") SKR(PKU) based on PKU, using the secret trustee equipment key SKR. The user equipment 300 then authenticates the received signature SKR(PKU) by using the public trustee equipment key PKR. See column 4, lines 11-39.

Thus, although the Examiner has cited column 4, lines 16-17 as disclosing generating a first key in the manner of independent claims 1, 6 and 8, it is clear that the "user registration procedure" of Moribatake et al does not include a description of how keys SKR, PKR, PKU and SKU are generated, and clearly does not disclose, teach or suggest generating a first key from contents information relating to the copyrighted electronic contents data to be distributed, as according to the present invention as recited in amended independent claims 1, 6 and 8.

In order to issue cash to a user according to the first embodiment of Moribatake et al, the user sends the key PKU, the ID data IdU, and a requested electronic cash amount x to the

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issuer 100 as a withdrawal request. The issuer 100 performs some

accounting processing and then creates a signature SKI(PKU, x)

using the secret issuer key SKI and the public key PKU and cash

amount x. The signature SKI(PKU, x) is sent to the user

equipment 300, which authenticate the signature with the public

issuer key PKI. If the signature is verified, then the user

equipment 300 updates its electronic cash balance to reflect the

addition of cash amount x. See column 4, line 40 to column 5,

line 6, for example, of Moribatake et al.

Thus, the disclosure of issuing cash according to the first

embodiment of Moribatake et al does not disclose how keys SKI and

PKI are generated. In addition, it should be clear that the

signature SKI(PKU, x) is not a key but rather is a signature

transmitted to indicate that the cash amount x is issued to the

user. Therefore, even though the cash amount x is variable and

inputted by a user, the cash amount x is not used to create a

key. That is, the cash amount x is not a variable parameter

received from the user terminal and used to generate a second

key.

The Examiner has also cited portions of the disclosure of

the second embodiment (namely, column 7, lines 18-31 and

column 7, line 66 to column 8, line 3) with respect to the

generation of the second key.

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It should be noted, however, that column 7, lines 18-31 of
Moribatake et al (which the Examiner cited as disclosing the
generation of the second key based on a H/W key ID) discloses the
same "user registration procedure" as the first embodiment
procedure described at column 4, lines 11-39. And it is
respectfully submitted that just as the description of a "user
registration procedure" of Moribatake et al does not disclose how
a first key is generated, it also does not even remotely disclose
the generation of a second key.

Indeed, even though the user registration procedure mentions
a user name IdU, Moribatake et al does not disclose, teach or
suggest looking up a H/W key ID from a database using the
data IdU, and Moribatake et al does not disclose, teach or
suggest that any of the keys SKR, PKR, SKU and PKU are generated
based on a H/W key ID or any other information obtained using
data IdU. Alternatively, if the Examiner is suggesting that key
PKU corresponds to the H/W key ID of the claimed present
invention, it is respectfully pointed out that PKU is not
retrieved from a database using a user ID. It should be clear,
moreover, from the description at column 4, lines 11-39 and
column 7, lines 18-31 that license SKR(PKU) is not a key that is
used to encrypt information, but rather is a license that is used
to authenticate a user at by shop 400 as described at, for
example, column 5, lines 41-46 of Moribatake et al.

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According to the second embodiment of Moribatake et al,
moreover, a bank equipment 200 is provided that issues a coupon
for electronic cash to the user, which transmits the coupon to
the issuer 100 together with the public user key PKU and cash
amount x. The coupon SKBx(PKU) is generated at the bank using a
secret key for cash amount x SKBx and is generated without
knowledge at the bank 200 of the public user key PKU due to a
"blinding" procedure performed on the public key PKU before it is
transmitted from the user 300 to the bank 200.

The Examiner contends that column 7, line 66 to column 8,
line 3 of Moribatake et al discloses transmitting the second key
to the user terminal. It is respectfully pointed out, however,
that the cited portion of Moribatake et al discloses sending data
from the user equipment 300 to the issuer 100. In addition, the
coupon (signature) SKBx(PKU) is not a key.

The Examiner has also cited elements of the third and fourth
embodiments of Moribatake et al as corresponding to the features
of the claimed present invention. In particular, the Examiner
contends that the encrypting and decrypting of data according to
the claimed present invention is disclosed in the third and
fourth embodiments of Moribatake et al. It is respectfully
submitted, however, that Moribatake et al does not disclose the
first and second keys of the claimed present invention, as
explained hereinabove. And it is respectfully submitted that the

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third and fourth embodiments of Moribatake et al are no more
relevant to the claimed present invention than the first and
second embodiments.

The third embodiment of Moribatake et al, moreover,
discloses a technique in which there is no trustee equipment 500
and in which communication between the user equipment 300 and
issuer 100 is conducted through the bank 200, so that the bank
relays information between the user and issuer. In order to
conceal data from the bank, another key, common key K, is used.
The common key K is encrypted, together with public key PKU,
using the public issuer key PKI and is sent to the issuer 100 via
the bank 200. The issuer decrypts PKI(PKU, K) to obtain K, which
it then uses to encrypt the license SKI(PKU) as K(SKI(PKU)) that
is sent to the user 300 through the bank 200. The user decrypts
the encrypted license using common key K and verifies license
SKI(PKU) using public issuer key PKI. See column 9, line 51 to
column 10, line 55 of Moribatake et al.

It should be noted that although Moribatake et al refers to
PKI(PKU, K) as an encrypted key, the unit "PKI(PKU, K)" is not
actually used to encrypt any data. Rather, the common key K,
which is used to encrypt data, is encrypted within PKI(PKU, K).
It should also be noted that the license SKI(PKU) is a license
for identifying/authenticating the user at the shop 400, in a

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similar manner to license SKR(PKU) described above with respect to the first embodiment.

The fourth embodiment of Moribatake et al, moreover, is very similar to the third embodiment, except that key identification data KID is created at the issuer 100 when the common key is obtained from PKI(PKU, K) so as to index the common key K in a database. With this structure, it is not necessary for the user to re-transmit the common key K when requesting the issuer to issue cash, since the issuer will already have key K on file from when the license SKI(PKU) was issued. And with this structure, the withdrawal request from the user to the issuer can then be concealed from the bank by encryption with common key K. See, for example, column 12, line 41 to column 14, line 23.

Thus, as recognized by the Examiner, the third and fourth embodiments of Moribatake et al do disclose sending encrypted data (i.e. the encrypted license K(SKI(PKU))) from the issuer to the user.

However, the encrypted content is merely a license such as SKI(PKU), or a signature verifying electronic cash issuance when making a withdrawal. The common key K, moreover, must correspond to the first key in the Examiner's interpretation of the third and fourth embodiments of Moribatake et al, since it is the common key K that is used to encrypt the license SKI(PKU). However, the common key K is generated at the user equipment 300.

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Therefore, the common key K is not generated at the server (from contents information relating to the copyrighted electronic contents data to be distributed) and is not decrypted at the user terminal, as according to the present invention as recited in claims 1, 6 and 8 with respect to the first key.

Finally, it is respectfully submitted that the various disparate citations from Moribatake et al clearly cannot logically be considered to form a coherent encryption and decryption technique in the manner of the claimed present invention.

In particular, the Examiner has cited portions of Moribatake et al related to the trustee 500, the issuer 100 and the bank 200 as relating to the server of the claimed present invention. However, according to Moribatake et al these various components are separate, perform different functions, and in some embodiments, take steps to conceal information from other ones of the components. (See for example the concealment of information from the bank described above with respect to the second, third and fourth embodiments.) It is respectfully submitted, therefore, that the combination of citations relating to these different components of Moribatake et al is simply not logical.

Still further, it is also respectfully pointed out that the Examiner has even cited conflicting passages of Moribatake et al with respect to the same feature of the present invention. For

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example, at the top of page 3 the Examiner asserts that a first
key is disclosed at column 4, lines 16-17 and column 13, lines 2-
4. However, the first citation relates to trustee keys SKR, PKR,
while the second citation relates to issuer keys SKI, PKI. In
addition, also on page 3 of the Office Action the Examiner cites
column 9, lines 61-63, column 10, lines 38-39, column 12,
lines 52-54 and column 13, lines 40-41 with respect to encrypting
and decrypting data with the first key. These cited portions,
however, relate to encryption performed with the common key K.
Thus, on page 3 of the Office Action and within the rejection of
claim 1 the Examiner has identified three different possibilities
for the "first key" according to the present invention.

It is again respectfully submitted that the disparate
citations from the various embodiments of Moribatake et al cannot
reasonably be combined into a single, functional encryption/
decryption method that corresponds to the claimed present
invention.

In view of the foregoing, it is respectfully submitted that
the present invention as recited in amended independent claims 1,
6 and 8, as well as claims 2, 4, 5, 7 and 9-12 respectively
depending therefrom, clearly patentably distinguishes over
Moribatake et al, under 35 USC 102 as well as under 35 USC 103.

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    Entry of this Amendment, allowance of the claims and the

passing of this application to issue are respectfully solicited.

    If the Examiner has any comments, questions, objections or

recommendations, the Examiner is invited to telephone the

undersigned for prompt action.

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Respectfully submitted,

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